## **CLAIMS**

What is claimed is:

1. A shock absorber comprising:

a pressure tube having a working chamber disposed therewithin;

a piston slidably disposed within said working chamber and dividing said working chamber into an upper working chamber and a lower working chamber;

a reserve tube surrounding said pressure tube to define a reserve chamber;

an intermediate tube disposed between said reserve tube and said pressure tube to define an intermediate chamber;

a collar attached to said intermediate tube; and

an external control valve having a valve seat received within said collar in an installed position.

- 2. The shock absorber of claim 1 wherein said collar is further defined by a shoulder portion extending generally lateral to said intermediate tube and a radial neck portion extending generally perpendicularly to said intermediate tube, said neck portion defining an inner diameter.
- 3. The shock absorber of claim 2 wherein said valve seat defines an outer diameter, said outer diameter forming a slip fit with said inner diameter of said neck in said installed position.
- 4. The shock absorber of claim 3 further comprising a seal disposed between said valve seat and said collar.
- The shock absorber of claim 2 wherein said collar is welded onto said intermediate tube such that the inner diameter of said neck aligns with a passage on said intermediate tube.
- 6. The shock absorber of claim 1 wherein said external control valve includes an inlet in fluid communication with said upper working chamber and said lower working chamber through said intermediate chamber.
- 7. The shock absorber of claim 1 wherein said external control valve includes an outlet in fluid communication with said lower working chamber through said reserve chamber.

- 8. The shock absorber of claim 7 wherein said external control valve includes an outer housing attached to said reserve tube in an installed position, said reserve tube including a passage for providing fluid communication between said control valve and said reserve chamber.
- 9. The shock absorber of claim 1, further comprising an o-ring disposed around said valve seat, said o-ring providing a seal between said inner diameter of said neck and said outer diameter of said valve seat.

10. A shock absorber comprising:

a reserve tube defining a reserve chamber;

an intermediate tube defining an intermediate chamber and disposed within said reserve tube;

a pressure tube arranged within said intermediate tube and having a working chamber therein;

a collar attached to said intermediate tube; and

an external control valve attached to said reserve tube and received within said collar in an installed position.

- 11. The shock absorber of claim 10 wherein said collar is further defined by a shoulder portion extending generally lateral to said intermediate tube and a radial neck portion extending generally perpendicularly to said intermediate tube, said neck portion defining an inner diameter.
- 12. The shock absorber of claim 11 wherein said external control valve includes a valve seat defining an outer diameter, said outer diameter forming a slip fit with said inner diameter of said neck in said installed position.
- 13. The shock absorber of claim 12 further comprising a seal disposed between said valve seat and said collar.
- 14. The shock absorber of claim 11 wherein said collar is welded onto said intermediate tube such that the inner diameter of said neck aligns with a passage on said intermediate tube.
- 15. The shock absorber of claim 10 wherein said external control valve includes an outer housing attached to said reserve tube in an installed position, said reserve tube including a passage for providing fluid communication between said control valve and said reserve chamber.

16. A method of making a shock absorber comprising:

providing a reserve tube defining a reserve chamber, an intermediate tube defining an intermediate chamber and having a passage incorporated on an outer wall thereof, said intermediate tube disposed within said reserve tube and a pressure tube arranged within said intermediate tube and having a working chamber therein;

attaching a collar to said intermediate tube, said collar extending generally perpendicularly to said intermediate tube;

slidably inserting a valve seat of an external control valve into said collar; and

attaching said external control valve to said reserve tube.

- 17. The method of claim 16 wherein attaching a collar includes aligning an inner diameter of said collar with said passage incorporated on said intermediate chamber creating a fluid pathway therebetween.
- 18. The method of claim 17 wherein attaching a collar includes welding said collar to said intermediate tube.
- 19. The method of claim 16 wherein slidably inserting a valve seat further includes aligning an output of said external control valve with a passage incorporated on said reserve chamber for providing fluid communication between said external control valve and said reserve chamber.
- 20. The method of claim 16 wherein attaching said external control valve includes welding an outer housing of said external control valve to said reserve tube.